DOCUMENT RESUME

ED 021 368 EC 002 189

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BASIC REFERENCE BOOKS RECOMMENDED FOR USE WITH GIFTED CHILDREN: AN ANNOTATED BIBLIOGRAPHY.

RAND Council of Northeast Minnesota, Duluth.

Pub Date Nov 67

Note- 44p.; Product of Special Education for the Giften through Television.

EDRS Price MF-$0.25 HC-$1.84

Descriptors- ANNOTATED BIBLIOGRAPHIES, BOOKLISTS, *EXCEPTIONAL CHILD EDUCATION, *GIFTED, HISTORY, HUMANITIES, *INSTRUCTIONAL MATERIALS, REFERENCE BOOKS, SCIENCES, SOCIAL SCIENCES

Intended primarily for us by gifted children and their teachers, this annotated list of approximately 200 references in print is classified in five subject categories: general, humanities, social sciences, history, and science. References selected are recommended for their accuracy and comprehensiveness. Entries are coded to indicate both basic and supplementary books. (JP)

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BASIC REFERENCE BOOKS RECOMMENDED FOR USE WITH GIFTED CHILDREN

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AN ANNOTATED BIBLIOGRAPHY COMPILED BY

ANNE TRUAX

SPECIAL EDUCATION FOR THE GIFTED THROUGH TELEVISION

MARY PILCH, PROJECT DIRECTOR

NOVEMBER, 1967

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INTRODUCTORY NOTES

This list of reference books is designed as a guide in buying books for use by gifted children and their teachers. It was selected with the intention of recommending basic books, covering a wide range of subject matter, but for the least expenditure. All the books included on the list are highly recommended for their accuracy and comprehensiveness, but it should be remembered that there are many others which can be substituted. It is unwise to buy any reference book, however, unless it has been recommended by some authority, such as an expert in the field, or by one of the lists of recommended books, such as the AAAS Book List for Children. Perhaps the most detailed and objective reviews of reference books are found in the Subscription Books Bulletin Review, which should be available in most libraries.

Reference books are revised frequently, some annually. Buy the most recent edition available. If you own an older copy of the same book, keep it; it is not a duplication. Often some material must be left out of the old edition in order to make room for the newer information. If funds will allow the purchase of a second reference book in a subject area do not look upon this as useless duplication. No two reference books, no matter how similar they appear to be, cover quite the same material. Even presenting the same topic in two different ways can help make it clear.

As much as possible, let gifted children find the information they seek without help. They, more than any other children, need to discover how each book "works." It may take them longer to find the fact alone, but in addition to mastering the arrangement of this particular reference, most gifted children will browse through the rest of the book. This is just as it should be, for in doing so, they not only discover how to make use of the book, but also will have a grasp of its unique contents for future reference.

SOME FACTS ABOUT THIS LIST:

1. There is a detailed subject index on the inside of the back cover. The arrangement is in five broad subject categories, and each category is subdivided.
2. The books are listed by title.
3. The prices listed are those for late 1967. In almost all cases, schools and libraries are given discounts of 10 to 40%.
4. As far as could be determined, there are no out-of-print books listed.
5. The symbol * means that this book is one of the basic books in the field, and should be purchased before any others in the same field.
6. The symbol # means a choice of two similar books. Purchase one or more, as funds permit.

GENERAL REFERENCE WORKS

HANDBOOKS

#**Reference books: a brief guide for students and other users of the library. 6th ed.
Compiled by Mary Neill Barton.
Baltimore, Enoch Pratt Free Library, 1966.
145 p. illus. $1.25, paper.
A simple, clear explanation of how to use reference books, with lists of general reference books and outstanding titles in the main subject fields. Intended for use in connection with courses in the use of the library and as a selection aid in small and medium sized libraries.

#**The use of books and libraries, 10th ed.
By Raymond Shove and others.
Minneapolis, University of Minnesota Press, 1963.
122 p. charts. $1.25. paper.
A brief manual, intended for college students, but very useful for high school and junior high. In addition to listing nearly 600 reference books, there is a brief explanation of the Dewey Decimal system, the Library of Congress classification, and the card catalog.

ENCYCLOPEDIAS:

NOTE: A set of encyclopedias is the keystone of any reference set. For gifted children, it is important that the set be of college level. However, it should also include sufficient visual material. Since most schools will have these, none are listed here. For good critical reviews of encyclopedia sets, see Subscription Books Bulletin Review.

#**Columbia encyclopedia in one volume, 3rd ed.
Ed. by William Bridgewater and Seymour Kurtz.
New York, Columbia University Press, 1963.
2388 p. illus. maps. tables. $49.50.
A very good quick reference source, especially rich in biography and place-names. Thoroughly revised and brought up to date. Brief bibliographies.

#**Lincoln library of essential information.
Buffalo, New York, Frontier Press, 1963.
2192 p. in 2 vols. graphs. charts. tables. $47.50.
Material is arranged by subject rather than alphabetically, but there is a good index. Revised frequently.

LANGUAGE DICTIONARIES. NOTE: Buy an unabridged dictionary if possible. If an abridged dictionary must be substituted, choose one of college level. Some good ones are:

#**American college dictionary.
Clarence L. Barnhart, editor-in-chief; Jesse Stein, managing editor; assisted and advised by 255 authorities and specialists.
New York, Random House, 1962.
1444 p. illus. various eds. $5.00 to $7.50.

#**Funk and Wagnalls standard college dictionary, Text ed.
New York, Harcourt, 1963.
1606 p. illus. $6.50 to $7.50.

#**Webster's seventh new collegiate dictionary.
Based on Webster's New International Dictionary.
Springfield, Massachusetts, G & C Merriam Company, 1963.
1220 p. illus. $5.75 to $15.00.

ABBREVIATIONS

#**Abbreviations dictionary: abbreviations, acronyms, contractions, signs and symbols defined. 1st rev. ed.
By Ralph De Sola.
New York, Duell, 1964.
227 p. $4.95.
Subtitle: Including civil and military time systems, Greek alphabet, international civil aircraft markings, numbered abbreviations, proof-reader's marks, punctuation and diacritical marks, radio alphabet, Roman numerals, ship's bell time signals, signs and symbols.

#**Acronyms and initialisms, 2nd ed.
By R. C. Thomas and others.
Detroit, Gale Research Company, 1965.
211 p. $15.00
An alphabetical listing made by computer. Subtitle: A guide to alphabetic designations, contractions and initialisms; Association, aerospace, business, electronics, governmental, international, labor, military, public affairs, scientific, societies, technical, transportation, United Nations.

IDIOMS AND USAGE

#**Current American usage.
By Elizabeth Bryant.
New York, Funk and Wagnalls, 1962.
290 p. $5.00.
Attempts to bring together the most recent information about frequently debated points of usage in English speech and writing.

#**A dictionary of contemporary American usage.
By Bergen Evans and Cornelia Evans.
New York, Random House, 1957.
568 p. $5.95.
An alphabetical listing and explanations of points of grammar, word usage, literary concepts, cliches, idioms, figures of speech, etc. Informal and witty, yet scholarly.

#**Dictionary of modern English usage, 2nd ed. rev.
By Henry Watson Fowler, rev. by Sir Ernest Gowers.
New York, Oxford University Press, 1965.
725 p. $5.00
Definitions and brief essays, alphabetically arranged, on usage and grammar and so on. A very famous handbook, now brought up to date, often penetrating and witty.

RHYMES

#**New rhyming dictionary and poet's handbook, rev. ed.
By Burges Johnson.
New York, Harper and Row, 1957.
464 p. $5.95.
Contents; Forms of English versification with examples; Rhyming dictionary, one-syllable rhymes, two-syllable rhymes, three syllable rhymes.

#**Wood's unabridged rhyming dictionary
By Clement Wood; introd. by Ted Robinson.
New York, World, 1943.
1040 p. $4.95.
Gives single, double and triple rhymes, but by sound, not spelling. A longer list than in Johnson, and with extensive information about forms and mechanics of poetry.

SYNONYMS AND ANTONYMS

#*The new Roget's thesaurus in dictionary form.
Ed. by Norman Lewis.
New York, Putnam, 1965.
552 p. $3.50 to $4.95.
Entries arranged in alphabetical form, with synonyms grouped according to meaning. Includes slang words, new words from technology and science.

#*Roget's international thesaurus, 3rd ed.
New York, Crowell, 1962.
1258 p. $5.95 and $6.95.
Completely revised and edited. Grouped by ideas and meaning, with an alphabetical index. Includes slang and colloquialisms and recent meanings.

#*Webster's dictionary of synonyms, 1st ed.
Springfield, Massachusetts, Merriam, 1942.
907 p. $6.75.
An excellent list, with precise discrimination of synonyms, as well as antonyms, analogous and contrasted words.

PERIODICALS. NOTE: One of the following should be included if at all possible. The regular Reader's Guide is the better buy.

Abridged reader's guide to periodical literature.
July, 1935 --. Author and subject index to a selected list of periodicals.
New York, Wilson, 1935 --. Vol. 1- . $10.00 a year.
Indexes 30 of the most popular periodicals from the Reader's Guide. Issued monthly except during the summer, with annual cumulations. Cumulated volumes from previous years can be purchased for $10.00 each.

Reader's guide to periodical literature.
1900 -- .
New York, Wilson, 1905 -- . Vol. 1- . $25.00 a year.
A dictionary index of popular United States periodicals. Issued semi-monthly, except monthly in the summer. Cumulates periodically throughout the year, and finally in an annual volume. Articles are entered by subject and author, and title when necessary.

GOVERNMENT PUBLICATIONS

Popular guide to government publications, 3rd rev. ed.
By W. Philip Leidy.
New York, Columbia University Press, 1966.
291 p. $8.95.
A frequently revised and competent guide, arranged by subject. Complete information is given, and some entries are annotated. Detailed index.

Government publications and their use, rev. ed.
By Laurence Schmeckebier and Roy Eastin.
Washington, D. C., Brookings Inst., 1961.
476 p. $6.00
A more complete guide than Leidy, with more information on earlier publications by the government.

*Selected United States government publications
Washington, D. C., Government Printing Office. Free.
This list, issued bi-weekly, includes government documents of greatest interest to citizens. All branches of government are represented, and many of the publications sell for less than one dollar. To have your name added to the list, write the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402.

MANUALS FOR WRITING

*Elements of style.
By Clarence Strunk and E. B. White.
New York, Macmillan, 1965. $2.95. $.95 paper.
A brief and concise manual of points to remember in the writing of expository prose. Beautifully written itself.

The modern researcher.
By Jacques Barzun and Henry Graff.
New York, Harcourt, 1957. 386 p. $5.95, $1.95, paper.
This handbook discusses research methods, evaluation of factual material, and acceptable writing styles. It includes information on technical aspects of term papers, such as bibliographies and footnotes, as well.

Student's guide for writing college papers
By Kate Turabian.
Chicago, University of Chicago Press, 1963.
172 p. cloth, $3.75. paper $1.25.
Primarily for undergraduates, but useful for high school and junior high. The author also writes a widely-used manual for graduate papers.

*The term paper: a manual and model, 4th edition.
By Charles Cooper and Edmund Robins.
Stanford, California, Stanford University Press, 1967.
40 p., paper $.50.
A manual for undergraduates, but applicable for high school. Designed to guide the student so that he will need a minimum of assistance from the teacher.

BIOGRAPHY

Current biography.
New York, Wilson, 1940- . Monthly, except August. $10.00. Annual, $12.00. Yearbooks 1946-1965. $7.00 each. Cumulated indexes.
Includes people of all nationalities who have been in the news for some reason. Includes a portrait and references to sources for further information.

*Webster's biographical dictionary.
Springfield, Massachusetts, Merriam, 1962.
1697 p. $8.50.
Subtitle: a dictionary of names of noteworthy persons, with pronunciations and concise biographies. More than 40,000 names. Also includes tables of positions such as presidents, kings and popes.

Who was who in America: Historical volume 1607-1896.
Chicago, Marquis, 1963.
670 p. $25.00.
Subtitle: a compilation of sketches of individuals, both of the United States of America and other countries, who have made contributions to, or whose activity was in some manner related to the history of the United States, from the founding of the Jamestown Colony to the year of continuation by volume 1 of Who's Who.

ORDERS, DECORATIONS AND FLAGS

American badges and insignia.
By Evans Kerrigan.
New York, Viking, 1966.
304 p., illus., bibliography, $6.95.
A comprehensive book on United States military insignia from Revolutionary War days to the present.

Flags of the world, rev. ed.
By E. M. C. Barraclough.
London, New York, Warne, 1965.
329 p. illus. $10.00
Histories and descriptions of the flags and standards of the various countries of the world.

The flag book.
By Preben Kannik, Tr. from the Danish.
Illus. in color by Wilhelm Petersen.
New York, Barrows, 1959.
196 p. $3.95.
Shows about 800 official flags, 80 national coats of arms, and some flags of historical interest.

RELIGION. NOTE: A reference collection should have a representative group of Bibles. If possible, these should be annotated.

*The Holy Scriptures.
New York, Jewish Publications Society.
The accepted Jewish version of the Old Testament. Unfortunately, it is not possible to get a one-volume translation of the Old Testament which has been annotated for use by students. There are many sets of annotations, but all too expensive for inclusion on this list.

*New Scofield Reference Bible.
New York, Oxford University Press, 1967.
$7.25.
King James version with notes.

*The Oxford Annotated Bible.
Annotated by Bruce Metzger and Herbert May.
New York, Oxford University Press, 1962.
$7.95.
Now being used by both Catholics and Episcopalians.
Douay version, formerly used by Catholics, has been superseded.

*The Bible: revised standard version.
New York, Nelson, 1952.
293 p. $8.50.
The latest Protestant translation which is becoming widely used.

The book of Jewish knowledge.
New York, Crown, 1964.
560 p. illus., $7.50.
Subtitle: An encyclopedia of Judaism and the Jewish people, covering all elements of Jewish life from Biblical times to the present.
An alphabetical encyclopedia dealing with the history, culture and ethics of the Jews.

Dictionary of the Bible.
By James Hastings. Rev. ed. by Frederick Grant and H.H. Rowley.
New York, Scribner, 1963.
1059 p. illus., $15.00
This edition has been thoroughly revised in the light of modern discoveries and scholarship. References are to the Revised Standard version of the Bible with cross references from the Authorized version and the Revised version.

An encyclopedia of religion.
Ed. by Vergilius Ferm.
New York, Littlefield, 1959.
$2.95.
A reprint of a 1945 publication, in one volume. Not restricted to material dealing directly to religion. In addition to articles on the significant religions of the world, there are articles on marriage, divorce, labor movements, etc. The treatment is historical and descriptive. Includes biographical sketches.

Harper's Bible dictionary.
By Madeline Murray and John Lane Murray.
New York, Harper, 1952.
851 p. illus., $8.95 and $9.95.
Alphabetically arranged. Treats the archeology, geography and chronology of the Bible, including the names of persons and places, ideas, books of the Bible, phrases, objects etc. Illustrated with photographs, line drawings, and maps.

Oxford dictionary of the Christian church.
Ed. by F. L. Cross.
London, Oxford University Press, 1961.
1492 p., $20.00.
(Repr. with corrections from 1957 ed.)
A one volume work containing more than 6,000 articles, some of considerable length. Coverage is broad, including historical and doctrinal development, many biographies, definitions of ecclesiastical terms and customs, etc.

LITERATURE: HANDBOOKS

#**A handbook to literature.
By William Thrall and Addison Hibbard.
Rev. and Enl. by C. H. Holman.
New York, Odyssey Press, 1960.
598 p. $4.25. paper $2.50.
Explanations of terms, concepts, schools, and movements, alphabetically arranged with many cross references. An "Outline of literary history, English and American" lists in tabular form outstanding English literary events from Celtic Britain to 1959, and, for American literature, from 1607 to 1959.

#*The reader's encyclopedia, 2nd ed.
New York, Crowell, 1965.
1126 p. illus. $8.95 and $10.00.
A comprehensive work containing brief articles on writers, scientists, philosophers, etc. of all nations and all periods; allusions and literary expressions and terms; literary schools and movements; plots and characters; descriptions of musical compositions and works of art, etc. The 2nd edition emphasizes world literature with emphasis on areas of growing interest, e.g., the Orient, the Soviet Union, Latin America and the Near East; and literary developments since the last edition in 1948.

LITERATURE: QUOTATIONS

#*Familiar quotations; a collection of passages, phrases and proverbs traced to their sources in ancient and modern literature, 13th ed. completely rev. by John Bartlett.
Boston, Little Brown, 1955.
1614 p. $10.00.
Arranged chronologically by author, with an excellent index with four or five entries per quotation.

#*Home book of quotations, classical and modern, 9th ed., rev.
Ed. by Burton E. Stevenson.
New York, Dodd Mead, 1964.
2817 p. $35.00.
More than 50,000 quotations, arranged by subject. Citations are exact, and brief information is given about author. Indexed, but somewhat unevenly.

#*Oxford dictionary of quotations, 2nd ed.
New York, Oxford University Press, 1953.
1003 p. $10.50.
In alphabetical sequence, with a keyword index. Does not include proverbs and phrases.

Macmillan book of proverbs, maxims and famous phrases.
By Burton E. Stevenson.
New York, Macmillan, c.1948, reprinted 1965.
$25.00
Very useful and carefully documented. Detailed index. Attempts to trace back to their sources, proverbs, maxims and familiar phrases in ordinary English and American use and show their development. Formerly called Home of proverbs, maxims and famous phrases.

Oxford dictionary of English proverbs, 2nd ed.
By William George Smith. Rev. by Sir Paul Harvey.
Introd. by Janet Heseltine.
Oxford, Clarendon Press, 1948.
740 p. $7.70
Alphabetized under significant words, with liberal cross references.

LITERATURE: BIOGRAPHY

Twentieth century authors, a biographical dictionary of modern literature, complete in one volume with 1850 biographies and 1700 portraits.
By Stanley Kunitz and Howard Haycraft.
New York, Wilson, 1942.
1577 p. illus. $12.00
Authors of all nations, selected on the basis of their acceptance in England or the United States. Includes bibliographies by and about each author.

First Supplement
By Stanley Kunitz and Vineta Colby.
New York, Wilson, 1955.
1123 p. $10.00.
Adds 700 new subjects and updates material, including bibliographies, from first volume.

Everyman's dictionary of literary biography, English and American, rev. ed.
By David Clayton Browning. Comp. after John W. Cousin.
New York, Dutton, 1960.
769 p. $5.00
Substantially a new work, although based on Cousin's Short biographical dictionary of English literature (1910). Brief biographical sketches of more than 2,000 authors, including contemporaries. Principal works with dates are noted, but no critical references.

LITERATURE: POETRY

The concise encyclopedia of English and American poets and poetry.
By Stephen Spender and Donald Hall
New York, Hawthorn, 1963.
415 p. illus. $15.00
Biographical sketches of poets with brief articles on literary movements, forms, etc.

Granger's index to poetry, 5th edition
Edited by W. F. Bernhardt.
New York, Columbia University Press, 1962.
2123 p. $65.00.
Indexes a great many poetry anthologies by author, subject, title and first line. A very important reference.

Supplement to fifth edition, 1960-65.
New York, Columbia University Press, 1967.
416 p. $35.00.

Index to children's poetry.
By John Brewton and Sara Brewton.
New York, Wilson, 1942.
965 p. $12.00.
Subtitle: A title, subject, author, and first line index to poetry in collections for children and youth.

First supplement
New York, Wilson, 1954.
405 p. $8.00.

Second supplement
New York, Wilson, 1965.
477 p. $10.00.
This supplement includes collections between 1949 and 1963.

Subject index to poetry for children and young people.
Compiled by Violet Sell and others.
Chicago, American Library Association, 1957.
592 p. $9.00.
Indexes poems in 157 collections for use with students from kindergarten through high school, covering concepts, people, holidays, etc.

LITERATURE: HANDBOOKS OF AMERICAN AND ENGLISH LITERATURE

American authors & books, 1640 to the present day.
By William Jeremiah Burke and Will Howe.
Augmented and revised by Irving Weiss.
New York, Crown, 1962, $8.50.
"The purpose of this handbook is to present the most useful facts about the writing, illustrating, editing, publishing, reviewing, collecting, selling and preservation of American books from 1640 to 1940."

#*Oxford companion to American literature, 4th edition. Revised and enlarged.
By James D. Hart.
New York, Oxford University Press, 1965.
992 p. $12.50.
Pref.: "In alphabetical arrangement the work includes short biographies, and bibliographies of American authors with information regarding their style and subject matter;" summaries of all kinds of literary works, and short articles on literary schools and movements, as well as other material of interest to readers.

#*Oxford companion to English literature, 4th edition.
Compiled and edited by Paul Harvey, Revised by Dorothy Eagle.
New York, Oxford University Press, 1946.
931 p. $10.00
A very useful dictionary of brief articles on authors; literary works; characters in fiction, drama, etc.; and literary allusions commonly met with in English literature. This edition has been revised and reset with some new and some rewritten articles.

#*Reader's encyclopedia of American literature.
By Max Herzberg and others.
New York, Crowell, 1962.
1280 p., illus., $12.95.
A comprehensive dictionary of American authors, critics, literary movements, synopses of books, literary characters, periodicals, geographical features which have influenced literature, etc. Not so scholarly as the Oxford Companion but more inclusive.

FINE ARTS

Encyclopedia of painting; painters and painting of the world from prehistoric times to the present day.
Edited by Bernard S. Myers.
New York, Crown, 1955.
511 p., illus., $12.95.
A one volume encyclopedia which attempts in a "portable and not too costly volume...to give an over-all picture of the outstanding painters, movements, styles and techniques from the most ancient times to the present day." Pref.: Arranged alphabetically with the partial exception of oriental painters; these are grouped by period under the headings: Chinese, Japanese, Indian, and Persian. Includes almost 1,000 illustrations, many in color.

#*Art in the western world, 4th edition.
By David Robb and Jessie Garrison.
New York, Harper, 1963.
782 p., illus., $9.95.
A standard introduction to the whole field of art. Separate sections on architecture, sculpture, painting, and the minor arts. Also contains: a chronological and topical concordance, glossary, bibliography, chronological table, index.

#*Art through the ages, 4th edition.
By Helen Gardner, edited by Sumner McKnight Crosby.
New York, Harcourt, 1959
840 p., illus., $11.75 and $8.50.
Intended for high school and college students and the general reader. This edition has an introduction on the vocabulary and the principles of art history, and sections on Ancient, European, Non-European, and Modern art. 832 illustrations. Bibliographies, glossary, index.

#*A new world history of art, revised edition.
By Sheldon Cheney.
New York, Viking, 1956.
700 p., illus., index., $10.95.
A comprehensive, authoritative picture of the arts through time and throughout the world.

A guide to art museums in the U.S.
By Erwin Christensen.
New York, Dodd Mead, 1967.
320 p., illus., $10.00.
Part 1 -- major museums plus information about collections.
Part 2 -- smaller, specialized museums.
Part 3 -- museums connected with colleges and universities.
Bibliography of museum directories and regional guides.

*Museums directory of the United States and Canada, 2nd edition.
Washington, D. C., American Association of Museums, and the Smithsonian Institute, c. 1965.
xvii, 1039 p., $7.50 + 50¢ postage.
Lists museums of all types -- art, history, and science -- arranged geographically, giving address, sponsor, executive officer, brief description, publications, hours of opening, etc.

Architecture through the ages, revised edition.
By Talbot Hamlin.
New York, Putnam, 1953.
704 p., 300 photos, bibliography, diagrams, index, $9.50.
An excellent survey history from the social point of view. The introduction, p. vii-viii, contains a selection of postwar publications describing recent discoveries and illuminating new evaluations and interpretations.

World architecture: an illustrated history.
Edited by Trewin Copplestone.
New York, McGraw-Hill Book Company, Inc., 1963.
348 p., illus., plates, maps, plans, $17.95.
A cultural history of architecture, written by several architects. Well illustrated with clear explanations, intended for laymen.

APPLIED ARTS

The book of costume.
By Millia Davenport.
New York, Crown, 1967.
2 volumes, 958 p., illus., $12.95.
A chronological survey from early times to the end of the American Civil War. The almost 3,000 illustrations (partly in color)are mainly from contemporary paintings, engravings, sculpture, etc. Location of the originals is usually given.

What people wore; a visual history of dress from ancient times to 20th century America.
By Douglas Gorsline.
New York, Viking, 1952.
280 p., illus. by the author, $10.00.
A one volume visual encyclopedia of the history of dress in the western world.

Standard postage stamp catalogue (the encyclopedia of philately)
Scott publications, inc.
New York, Scott. Annual.
Title varies slightly. Publisher's name varies: Scott and Co.; Scott Stamp and Coin Company, Ltd; etc.
Since 1939 each issue is in 2 volumes. Volume subtitles vary. For 1965; v. 1, United States and possessions, United Nations, British Commonwealth of Nations, Latin America; v. 2, European countries and colonies and the independent nations of Africa and Asia.
Supplements to this catalog appear in Scott's monthly stamp journal. Gives illustrations, description, denominations, and value of the principal stamps, used and unused of all countries.

THEATER, MUSIC AND OPERA

Oxford companion to the theatre, 3rd edition.
By Phyllis Hartnoll.
New York, Oxford University Press, 1967.
1,100 p., illus., $15.00.
International in scope and covering all periods of history with emphasis on the popular rather than on the literary theater and on the actor rather than on the dramatist. Opera and ballet are each treated in a single article; the cinema, not at all.

Everyman's dictionary of music, 4th edition.
Compiled by Eric Blom, revised by Jack Westrup.
New York, Dutton, 1962.
687 p., $5.50.
An excellent popular dictionary for quick reference, not for the specialist. Deals with Western music of the Christian Era. Includes terms, works, places and biographical sketches but omits living performers.

The Harvard brief dictionary of music.
By Willi Apel and Ralph Daniel.
Cambridge, Harvard, 1960.
341 p. bibliographies, illus., $3.95.
Brief articles for the nonspecialist who does not require the lengthier explanations of the Harvard dictionary of music. Includes opera plots, songs and compositions, but no composers. Emphasis is on the historical point of view. Omits biographical articles. Contains definitions of all kinds.

#*International cyclopedia of music and musicians, 9th edition.
Editor-in-chief, Oscar Thompson.
Editor, 9th edition, Robert Sabin.
New York, Dodd Mead & Company, 1964.
2,476 p., ports., $35.00.
Alphabetically arranged. Most of the articles are short, but there are also included, in the same alphabet, signed monographs of considerable length -- written by authorities -- on the more important composers and also on special subjects such as the history of music, music criticism, folk music, opera, etc. Each of the biographical articles is followed by a calendar of the composer's life and a classified list of his works. The work is strong in biography, and many contemporary names are included. Section on pronunciation of names and titles.

#*Oxford companion to music, 10th edition
By Percy Scholes.
New York, Oxford University Press, 1960.
1,195 p. $25.00.
Comprehensive, alphabetical dictionary on all phases of music containing long encyclopedic articles; some short articles; and many definitions. Contains more than 1,500 biographical articles Includes a pronouncing glossary of foreign terms and names. No bibliographies in this edition.

#*Concise Oxford dictionary of the opera.

By Harold Rosenthal and John Warrack.
London, Oxford University Press, 1964.
446 p., $6.50.

Includes entries for terms and characters in opera; brief synopses of operas; and biographical notes on composers, conductors, directors, producers, and singers.
A very useful, up-to-date, one volume dictionary, especially for recent composers. Older composers are treated more briefly. Contains many literary references.

#*Encyclopedia of the opera.

By David Ewen.
New York, Hill & Wang, 1963.
594 p., $7.50.

Aims to be a comprehensive source book about opera and opera performance. In one alphabet it covers: stories of operas; characters; excerpts from operas; biographies (composers, librettists, singers, conductors, stage directors, impresarios, teachers, critics, musicologists, etc.) history of opera; opera houses and festivals; literary sources; special types of opera; technical terms. Pronunciation guide.

#*Kobbe's complete opera book.

By Gustave Kobbe. Edited & revised by the Earl of Harewood.
London, New York, Putnam, 1963.
xvi, 1,262 p., 40 plates, $10.95.

Gives synopses of 200 well-known operas, with leading arias and motives, and biographies of the composers. A discussion of the development of opera is included.

GENERAL

*Famous first facts, 3rd edition.
By Joseph Kane.
New York, Wilson, 1964.
1,165 p. $18.00.
Records events, discoveries and inventions that have taken place in the United States. The chronological and geographical indexes are very useful if the events of a certain year are desired, or a list of "first things" in a certain place. Days of the month and personal names are also indexed. Includes nearly 7,000 "firsts."

*The Guinness book of world records.
Revised and enlarged by Norris & Ross McWhirter.
New York, Sterling Publishing Company, c. 1965.
423 p., illus., $3.95.
This is an American edition of a popular and often revised British title compiled by Norris and Ross McWhirter. Frequently wanted facts are given in quantitative terms -- the tallest, the longest, the heaviest, etc. It helps settle many arguments.

#*World almanac and book of facts.
Edited by Luman Long.
Garden City, New York, Annual.
1,011 p., maps, illus., $2.75.
This famous one-volume work contains a wealth of up-to-date miscellaneous information, including statistics of governments, industries, population, schools, sports, etc. The chronology of important events of the preceding year, and the list of associations and societies with addresses are among the useful features.

#*Information please almanac, atlas and yearbook, 21st edition.
New York, Simon & Schuster, Annual.
960 p., $2.95, paper $1.60. illus, maps, photo.
Another useful annual compilation of facts which supplements the World Almanac, each including information not in the other. More legible than the latter, and therefore easier to consult. Includes occasional descriptive articles on the year's developments in certain fields, e.g. the Warren Report, as well as statistics and useful lists.

EDUCATION

American junior colleges, 6th edition.
Edited by Edmund Gleazer.
Washington, D. C., American Council on Education, 1963.
551 p. $14.00

Gives information on 655 junior colleges in the 50 states, District of Columbia, Canal Zone, Guam and Puerto Rico. Covers enrollment, curricula, admission and graduation requirements, history, fees, student aid, library, foreign students, and publications. Appendixes include American Association of Junior Colleges; classified data for junior colleges; curricula offered by junior colleges etc.

*American universities and colleges, 9th edition.
Edited by Allan M. Cartter.
Washington, D. C., American Council on Education, 1964.
1,339 p. $15.00

Published quadrennially since 1928 (except 1944). The most generally useful educational directory for higher education, presenting a summary of the present resources of American colleges and universities in three main sections (1) Survey articles on higher education in the U.S., including chapters on selecting a college; undergraduate, graduate, and professional education; the federal government and higher education; the foreign student etc.; (2) Professional education; (3) Descriptions of more than 1,100 institutions arranged alphabetically by state, giving for each; definite information about its history, organization, calendar, admission and degree requirements, fees, graduate work, departments and teaching staff, distinctive educational programs and activities, degrees conferred, enrollment, foreign students, library resources, publications, student financial aid, finances, buildings and grounds, administrative officers, etc. Appendixes include: accreditation in higher education: academic costume code; degree abbreviations; tables of earned doctorates conferred, 1861-1962.

#*Directory of sources for higher education planning,
Chicago, Science Research Associates, c. 1965.
$9.95, paper $5.32.

Descriptions of 2,462 college-level institutions include general information, plus admission, academic and cost data.

#*Lovejoy's college guide, 8th edition.
By Clarence Lovejoy.
New York, Simon and Schuster, c. 1966.
373 p. $6.50, paper $3.95.

Lists 2,834 schools. Also explains Draft Deferment Examination, and entrance examinations for various graduate schools.

New horizons in education: Pan American's guide to schools and universities abroad.

Prepared by Pan American Airways.
New York, Simon & Schuster, 1967.
222 p., illus., maps, $6.95, paper $3.95.

Part 1 lists 200 universities and colleges in 40 countries, states, and territories outside continental U.S. Data on each institution are standardized: size, calendar, courses, tuition, admission, accommodations, and costs, student life. Summary of educational advantages in each country and a small spot map showing the location of each institution listed. Part II lists for the same areas the elementary and secondary day and boarding schools annually enrolling a proportion of U.S. students, with all necessary data, even to names of administrators.

*Study abroad; international directory of fellowships, scholarships, and awards.

Compiled by United Nations Educational Scientific & Cultural Organization.
Paris, UNESCO, Biennial, Dist. by International Document Service of Columbia University Press.
589 p. $4.00 (in 3 languages).

Gives details of available fellowships and scholarships for international study. Arranged by originating country and alphabetically by donor or administering agency. In tabular form gives name, field of study, where tenable, conditions and purpose, value and duration, number available, where to send application and date limit. Indexed by fields of study.

#*Lovejoy's scholarship guide to colleges and preparatory schools, 2nd edition.

By Clarence Lovejoy.
New York, Simon & Schuster, 1966.
91 p. $4.95, paper, $2.95.

Guide to scholarships, student loans, student aids, workshops, and awards. Information on: College Scholarship Service: School Scholarship Service; the National Merit Scholarship; General Motors Scholarship; Student Loans -- where and how to apply; Aids offered by Federal and state governments; Army Navy and Air Force ROTC aids; Scholarships sponsored by labor unions, foundations, fraternal, educational, religious and patriotic groups, professional associations, welfare groups and many others. Alphabetically listed.
Index, tables, charts, sample forms.

#**National register of scholarships and fellowships.
By Juvenal L. Angel.
New York, World Trade Academy Press, Inc., Annual.
Vol. 1, 494 p.; Vol. 2, 208 p. $15.00 per volume.
Volume 1, Scholarships and loans. Arranged by state; lists the scholarships and loan funds, primarily undergraduate, offered by private organizations and corporations, educational institutions, and state and city governments.
Volume 2, Fellowships and grants. Arranged by subject field; lists the fellowships and loans available to students "planning to undertake predoctoral or postdocoral training."

*Scholarships, loans and fellowships in Minnesota.
By Benjamin Lasoff.
St. Paul, Jewish Vocational Service and Twin Cities B'nai Brith, 1967.
289 p. $4.00.
Frequently revised. Order from Jewish Vocational Service
1549 University
St. Paul, Minnesota 55104.

Free and inexpensive learning materials, 1966-67, 13th edition.
Nashville, Tennessee, George Peabody College for Teachers, 1966.
$2.00
A list, by subject, of booklets, graphs, maps, charts, etc., which are available free to classroom teachers.

FOLKLORE AND MYTHOLOGY

#**Funk and Wagnall's standard dictionary of folklore, mythology and legend.
Edited by Maria Leach and Jerome Fried.
New York, Funk and Wagnall's, 1949-50.
2 vols. $10.00 each.
A representative selection of gods, heroes, tales, motifs, customs, beliefs, songs, dances, games, proverbs, etc. of the cultures of the world. Volume includes 23 "survey articles" with bibliographies on regions and on special subjects (ballad, dance, fairy tale) written by specialists.

#**Larousse encyclopedia of mythology.
New York, Putnam, 1959.
Introduction by Robert Graves.
512 p., over 800 illus., bibliography, index, maps, $17.50.
The mythology of the Middle East, the Orient, Europe, Africa, and America from prehistory to present times. In essay form.

POPULAR CUSTOMS AND RECREATION

Anniversaries and holidays; a calendar of days and how to observe them, 2nd edition.
By Mary E. Hazeltine.
Chicago, American Library Association, 1944.
336 p., $6.00.
Calendar arrangement of important holidays, holy days, historical events, birthdays of important personages, and special days and weeks with information about them and lists of materials for their observance. In five parts: The Calendar; Books about Holidays; Special Days, and Seasons; and Books about Persons Referred to in the Calendar.

*The American book of days, 2nd revised edition.
By George William Douglas, Revised by Helen Douglas Compton.
New York, Wilson, 1948.
697 p., illus., $8.00.
Subtitle: A compendium of information about holidays, festivals, notable anniversaries and Christian and Jewish Holy Days with notes on other American anniversaries worthy of remembrance. Descriptive articles for each day of the year.

#*Book of common sense etiquette.
By Eleanor Roosevelt.
New York, Macmillan, 1962.
591 p., $5.95.
An up-to-date, practical book, giving special attention to young people and young families at home, at work, in the community and abroad. Contains a useful list of references.

#*New complete book of etiquette; the guide to gracious living.
By Amy Vanderbilt.
New York, Doubleday, 1963.
733 p., illus., $5.50 to $8.50.
Comprehensive manual of current social practices, giving advice and suggestions for all social occasions from christenings to funerals.

The encyclopedia of sports, 3rd revised edition.
By Frank G. Menke.
New York, Barnes.
1,044 p., $15.00.
A very useful reference work in a popular field, which includes records, history of sports, rules, organizations. To illustrate the great diversity of subjects treated in brief articles, the following have been chosen at random: bob-sledding, chess, curling, fencing, water polo, stadiums in the United States with seating capacity.

New complete Hoyle.
Edited by Richard Frey, with Albert H. Morehead, & Geoffrey Mott-Smith.
Garden City, New York, Doubleday, 1955.
740 p., $4.95.
Subtitle: an encyclopedia of rules, procedure, manners, and strategy of games played with cards, dice, counters, boards, words, and numbers.

STATISTICS

Statistical yearbook.
Compiled by United Nations Statistical Office.
New York, United Nations, Annual.
1967 price, $10.00.
A summary of international statistics. Covers population, agriculture, mining, manufacturing, finance, trade, social statistics, education, etc., of the various countries of the world, the tables usually covering a number of years. References are given to sources.

*Statistical abstract of the United States, 1878-
United States Bureau of the Census
Washington, D. C., Government Printing Office, Annual.
A single volume work presenting quantitative summary statistics on the political, social, industrial and economic organization of the United States. Indispensable in any library, it serves not only as a first source for statistics of national importance but as a guide to further information, as references are given to the sources of all tables. Statistics given in the tables cover a period of several years, usually about 15 or 20; some tables run back to 1789 or 1800.

*Historical statistics of the United States, colonial times to 1966.
United States Bureau of the Census.
Washington, D. C., Government Printing Office, 1967.
789 p., illus., $3.50.
A supplement to the Statistical abstract including comparative historical statistics of the same type as those in the Abstract.

POLITICAL SCIENCE

Political handbook and atlas of the world; parliaments, parties and press.

Edited by W. H. Mallory.
New York, Harper (for Council on Foreign Relations).
Annual. 1967 price: $8.50.

Usually gives chief government officials, party programs, and leaders, political events, and the press (names of newspapers with political affiliation, and proprietor or editor and in some cases the circulation).

*Statesman's year-book: statistical and historical annual of the states of the world, 1864- .

London and New York, Macmillan. Annual.
1967 price: $8.00.

Not an almanac of miscellaneous statistics but a concise and reliable manual of descriptive and statistical information about the governments of the world. Contents vary somewhat but usually give: (1) British Commonwealth and Empire; (2) United States; (3) Other countries, arranged alphabetically. For each country, gives information about its ruler, constitution and government, area population, religion, social welfare, instruction, justice and crime, state finance, defence, production and industry, agriculture, commerce, navigation, communications, banking and credit, money, weights and measures, diplomatic representatives, etc. A valuable feature is the selected bibliography of statistical and other books of reference given for each country. Recent volumes include information on the United Nations. The most useful of all the general yearbooks; indispensable in any type of library.

United States government organization manual, 1935 - date.

United States National Archives and Records Services.
Washington, D. C., Government Printing Office, 1935-date.
1966-67 price: $2.00.

A manual of information on the organization, activities, and current officials of the various departments, bureaus, offices, commissions, etc. of the government.

*Webster's geographical dictionary; a dictionary of names of places with geographical and historical information and pronunciations, revised edition.
Springfield, Massachusetts, Merriam, 1962.
1,293 p., maps, $12.50.
A pronouncing dictionary of more than 40,000 geographical names including not only current but also historical names from Biblical times, ancient Greece and Rome, medieval Europe. Cross references are given for equivalent and alternative spellings of names that have been changed. Gives the usual gazetteer information, e.g. location, area, population, altitudes of mountains, etc., and for the largest cities, important countries, and each of the United States, also gives geographical features, historical monuments, and a concise history. Includes full-page and smaller, inset maps in color.

#*Goode's world atlas, 12th edition.
By John Paul Goode.
Chicago, Rand McNally, 1964.
288 p., illus., maps, $9.95.
An excellent, small, student atlas.

#*Hammond's ambassador world atlas, 2nd edition.
Maplewood, New Jersey, C. S. Hammond & Company, 1961.
560 p., illus., $15.00 to $35.00.

#*National Geographic Society atlas of the world.
Washington, D. C., National Geographic Society, 1963.
300 p., maps, illus., $18.75 to $24.50.
Maps are by area rather than state or country.

#*Rand McNally cosmopolitan world atlas.
Chicago, Rand McNally, 1964.
276 p., illus., maps, tables, $14.95.
Has some information which is not appropriate, such as a section on space, but an accurate atlas.

#*World book atlas.
Chicago, Field Enterprises Education Corporation, 1964.
392 p., illus., maps, tables, $29.95.
Planned for student use, with a section, "How to get the most out of the World Book Atlas," which is very useful.

GENERAL WORKS

*An encyclopedia of world history, 4th edition.
Compiled and edited by William Langer.
Boston, Houghton Mifflin, 1967. Revised & reset.
1,513 p., maps and tables, $9.25.
An epitome of world history, giving concise, accurate outlines, not tables. Devoted primarily to political, military and diplomatic history. Comprehensive index.

#*Atlas of world history.
Edited by Robert Palmer.
New York, Rand McNally, 1957.
216 p., maps, $6.95.
Well-made maps, about 75 in color and almost 50 in black and white. Most detailed treatment of North American and European history (particularly for 19th and 20th centuries but with maps also of Asia, Africa, and Latin America. Name index.

#*Historical atlas, 9th edition.
By William R. Shepherd.
New York, Barnes and Noble, 1964.
226 p., maps, $15.00.
For many years the standard and most used historical atlas. Covers from 1450 B.C. to 1964. Three-part index.

ANCIENT

*The concise encyclopedia of archaeology.
Edited by Leonard Cottrell.
New York, Hawthorn Books, 1960.
512 p., illus., $15.00.
Many distinguished British scholars have contributed to this useful compilation. Biographies of archeologists and beautiful illustrations add to the value of this "first aid" in a subject in which there are few formal reference books for the interested layman.

*Oxford classical dictionary.
Edited by Mary Cary and others.
Oxford, Clarendon Press, 1949.
971 p., $14.50.
A scholarly dictionary, with signed articles on biography, literature, mythology, philosophy, religion, science, geography, etc. Some subjects are covered by long survey articles. Good bibliographies.

AMERICAN

#*Concise dictionary of American history.
Edited by Thomas Cochrane and Wayne Andrews.
New York, Scribner's, c. 1940, 1961, 1962.
1,156 p., $19.50.
Based on the six volume Dictionary of American history. Covers political, economic, social, industrial and cultural history, but it omits biography, as it is covered in the companion Dictionary of American biography. Has an extensive analytical index.

#*The encyclopedia of American facts and dates, 4th edition.
Edited by Gordon Carruth and associates.
New York, Crowell, 1962.
758 p., $7.95.
Chronologically arranged from 958 to 1961. In columnar form covering: (1) Politics and government, war, disasters, vital statistics; (2) Science, industry, economics, education, religion, philosophy; and (4) Sports, fashion, popular entertainment, folklore, society. Detailed index.

#*Encyclopedia of American history, revised edition.
By Richard Morris.
New York, Harper, 1961.
840 p., maps, $8.95.
In three main parts: (1) Basic chronology, which lists the major political and military events of American history from aboriginal times to January, 1960; (2) Topical chronology, which lists events under such headings as the expansion of the nation, population and immigration, the constitution and the Supreme Court, the American economy, science and invention, thought and culture; (3) 400 notable Americans, with biographical sketches. Index.

*Documents of American history, 7th edition.
By Henry Steele Commager.
New York, Appleton-Century-Croft, 1963.
2 volumes in 1, 1,471 p., $7.25, paper $3.25 each (separate)
Gives exact citation of documents which are important in American history, and quotes the document itself.
Volume 1; to 1898. Volume 2; 1898 to October, 1962.

PURE AND APPLIED SCIENCE

NOTE: For further suggestions for science books, see The American Association for the Advancement of Science Book List for Children, and the AAS Book List for Young Adults. Both are excellent, frequently revised, and carefully annotated.

GENERAL WORKS

*Compton's illustrated science dictionary.
Editor-in-chief, Charles Ford.
Indianapolis, David-Stewart, 1963. (c. by F.E. Compton & Co.)
632 p., illus., $18.95.
Designed for young adults. Gives pronunciation, definition, and a sentence illustrating the use of each word. Indicates differing meanings of words in the different sciences. The words have been chosen from 14 sciences taught in the schools; aeronautics, anatomy, astronautics, astronomy, biology, botany, chemistry, earth science, engineering, mathematics, medicine, physics, physiology, and zoology.

Harper encyclopedia of science.
Edited by James R. Newman.
New York, Harper & Row, 1963.
4 volumes, 1,379 p., illus.,maps, tables, charts, $33.94-$40.
An encyclopedia covering astronomy, biochemistry and biophysics, biology, chemistry, geology, history and philosophy of science, mathematics, meteorology, physics, and technology. Signed articles written for the layman. Bibliography, Index.

The new intelligent man's guide to science.
By Isaac Asimov.
New York, Basic Books, 1965.
864 p., drawings, graphs, $12.50.
A revision of the original work published in 1960. Popular work by a well-known professional biochemist and science writer, providing a comprehensive orientation in the history, concepts, laws and methods of science.

SPACE SCIENCE AND ASTRONOMY

#*Larousse encyclopedia of astronomy, 2nd edition.
By Lucien Rudaux and G. de Vaucouleurs.
New York, Putnam, 1959.
512 p., photo., drawings, charts, index, $17.50.
A basic reference work, profusely illustrated, that is so complete, authoritative and up-to-date that it is essential for secondary schools. Topically arranged with index.

#*The space encyclopedia: a guide to astronomy and space research, 2nd revised edition.
General editor, M.T. Bizony.
New York, Dutton, 1960.
288 p., illus., $8.95.
An alphabetical dictionary and encylopedia, giving definitions of terms and brief articles on astronomy, missiles, and space.

Atlas of the universe.
By B. Ernst and T.E. De Vries. Translated by D.R. Welsh.
Edited by H. E. Butler.
New York, Nelson, 1961.
226 p., illus., $9.95.
A section of 94 plates is followed by an alphabetical encyclopedia written for nonspecialists.

A history of astronomy.
By Antonie Pannekoek.
New York, Interscience, 1961.
521 p., illus., $10.50.
Several professional astronomers have stated that this is the best general history of astronomy currently in print. It is authoritative, yet not technical, and relates the intellectual, technological and social background to the astronomy of each historical period.

#Field book of the skies, 4th edition.
By William Olcott, Edited by R. Newton & Margaret Mayall.
New York, Putnam, 1954.
482 p., illus., $5.00.
As an introduction to astronomy for the beginner and amateur, and as a reference handbook for the professional, there is no better book. Some portions are not strictly up-to-date, but this does not impair its usefulness.

#A Field guide to the stars and planets.
By Donald Menzel.
Boston, Houghton Mifflin, 1964.
397 p., maps, $4.95.
A complete pocket guide to the sky at night with 48 sky maps and 54 charts of the fainter stars, each with a paired guide containing proper names. Glossary and tables.

BIOLOGICAL SCIENCE-GENERAL WORKS

*Compton's dictionary of the natural sciences.
Editor-in-chief, Charles Ford.
Chicago, F.E. Compton's, 1966.
2 volumes, 879 p., illus., $34.95.
Alphabetically arranged and designed to identify, describe and illustrate terms from eleven fields of the earth and life sciences. These are: astronomy, biology, botany, earth science, geology, meteorology, microbiology, mineralogy, oceanography, paleontology, and zoology. Scientists from each field helped choose and define the words. Each definition amounts to a short article. There is also a section of charts and tables, and a lengthy index and glossary.

*Encyclopedia of the biological sciences.
Edited by Peter Gray.
New York, Reinhold, 1961.
1,119 p., illus., $20.00.
Over 800 articles, alphabetically arranged, on biological subjects. The terminology and scientific thoroughness are above the level of the standard encyclopedias. Fine for students.

The science of life: a picture history of biology.
By Gordon R. Taylor.
New York, McGraw-Hill, 1963.
368 p., illus., $9.95.
A profusely illustrated history that spans the whole period of man's study of living things up to the time of publication. Chronological table. Good for reference and for reading.

BIOLOGICAL SCIENCES-SPECIALIZED HANDBOOKS

NOTE: These are representative examples of the many excellent handbooks available.

Gray's manual of botany, 8th edition.
Revised and enlarged by Merritt Fernald.
New York, American Book Company, 1950.
1,632 p., illus., $15.00.
The standard handbook on flowering plants and ferns in North America and Canada. An indispensible reference in the field.

Field book of insects, revised edition.
By Frank E. Lutz.
New York, Putnam, 1948.
510 p., illus., $3.95.
A well-known and popular field book which describes all the principal families, many genera, and most of the common species of insects in the United States and Canada. Condensed information on aerial, aquatic and terrestrial insects.

Animals without backbones, 2nd edition.
By Ralph Buchsbaum.
Chicago, University of Chicago Press, 1948.
405 p., illus., $9.00.
Over 500 photographs and 300 line drawings illustrate this outstanding introduction to invertebrates. Easily understood, and a valuable reference book even for experts. Since invertebrates comprise 95% of the animal kingdom, this book is indispensable to all libraries.

Living reptiles of the world.
By Karl Schmidt and Robert Inger.
New York, Doubleday, 1957.
287 p., illus., $10.00.
A general descriptive review for the layman and student in biology of the reptiles: turtles, tuatara, alligators, crocodiles, lizards, and snakes. Many colored photographs.

Field guide to the birds: Eastern land and water birds, revised ed.
By Roger Tory Peterson.
Boston, Houghton Mifflin, 1947.
290 p., illus., $4.95.
Covers over 700 species east of the Rocky Mountains. It emphasizes the distinguishing characteristics of birds when seen at a distance and employs pattern drawings, field marks and comparisons between species. Winner of the Brewster Medal from the American Ornithologists Union.

A Field guide to Western birds, revised edition.
By Roger Tory Peterson.
Boston, Houghton Mifflin, 1961.
366 p., illus., $4.95.
Companion to the preceding volume. Covers 747 species west of the 100th meridian in the United States, Canada, Alaska and Hawaii. The same system of identification is employed. Both guides are indispensable.

A Field guide to the mammals, revised edition.
By William Burt and R.P. Grossenheider.
Boston, Houghton Mifflin, 1964.
284 p., illus., $4.95.
Covers a majority of the common species found in North America and the surrounding waters. Has maps showing distribution, color plates, and other aids to identification. Each description also gives the animal's habitat, habits, economic importance, and similar easily-confused species.

EARTH SCIENCES

Larousse encyclopedia of the earth: Geology, Paleontology, and Pre-history.
Edited by Norman Harris and others.
New York, Putnam, 1961.
419 p., illus., $15.00.
This attractive revision and translation of a French work is a comprehensive and stimulating tour of the earth sciences. Divided into the "past" and the "present," it covers man's discovery and use of his planet on, above, and below the surface, as well as the processes and forces which created it and continue to mold and change it. Arresting browsing and a useful reference.

Crystals and crystal growing.
By Alan Holden and Phylis Singer.
New York, Doubleday, 1960.
320 p., illus., $1.10.
An outstanding member of the Science Study Series, concerning the beautiful and fascinating world of crystals and the crystallographer's art. Because of the great interest of young people in crystal growing every library needs this book.

Weathercasting.

By Charles Laird and Ruth Laird.
New York, Prentice-Hall, 1955.
163 p., illus., $3.95.

Presents a complete "do-it-yourself" program in weather forecasting and study. The symbols and techniques used in weather reporting and mapping are fully explained and numerous charts and tables aid the amateur in his calculations and predictions. Detailed instructions for building and using home-made instruments permit the interested beginner to carry on advanced and accurate studies economically.

Mineralogy for amateurs.

By John Sinkankas.
Princeton, New Jersey, Van Nostrand, 1964.
585 p., illus., $12.50.

A book on mineralogy and petrology for amateurs that fills the gap between very elementary manuals and the college textbooks that require a background of mathematics, physics, and chemistry. Part I is an exposition of the subsciences of mineralogy and crystallography. Part II is a descriptive catalog based upon actual examination of specimens in leading institutional and private collections.

The rock book.

By Carroll Lane Fenton and Mildred A. Fenton.
New York, Doubleday, 1940.
357 p., illus., $8.95.

An introduction to the properties, occurrence, and importance of common rocks and minerals. Identifying characteristics, geologic formation, and regional distribution are given, and the historic significance and present uses of various ores and minerals are discussed. Contains suggestions for collecting, preparing, and displaying specimens and includes references.

The fossil book.

By Carroll Lane Fenton and Mildred A. Fenton.
New York, Doubleday, 1958.
482 p., illus., $15.00.

Since the examples and literature in the field are voluminous, the authors have used illustrations of North American species wherever possible. A survey of the evidence concerning the earliest forms of plants and animals and progressing up to the discussion of recently-extinct species. Many useful appendices. A fine reference and reading book.

Life of the past: An introduction to paleontology.
By George Gaylord Simpson.
New Haven, Connecticut, Yale University Press, 1953.
198 p., illus., $6.00, paper $1.45.
An outstanding specialist has written a nontechnical discussion for the younger student and general reader, on the scope and significance of paleontology. Concerned with the principles and the interpretation of the history of life to be gained from fossil evidence.

MATHEMATICS, PHYSICS AND CHEMISTRY

Mathematics dictionary.
By Glenn James and Robert James, editors.
Princeton, New Jersey, Van Nostrand, 1959, students' edition.
474 p., illus., tables, $10.00.
Provides definitions of more than 7,000 mathematical terms Additional features include complete cross-references, log and trig tables and mathematical formulas in context.

Universal encyclopedia of mathematics.
Foreword by James Newman.
New York, Simon and Schuster, 1964.
715 p., $8.95.
Designed for the high school and college student; covers from arithmetic through calculus. Part I is an alphabetically arranged encyclopedia by subject; part II contains mathematical formulae; part III mathematical tables.

Dictionary of physics.
By H. J. Gray.
London, Longmans, 1958.
544 p., illus., $7.50.
With contributions from a number of leading scientists. Designed to provide a comprehensive dictionary of moderate size. Includes articles on applied physics as well as in the general field. Most articles are brief, but a few are longer and a few biographical sketches are included.

Handbook of chemistry and physics, 45th edition.
Edited by Charles Hodgman et. al.
Cleveland, Chemical Rubber Company, 1964.
3,700 p., $15.00.
A well-known reference book containing much-used information on mathematics, chemistry, and physics, including tables, physical constants of chemical elements and compounds, definitions, formulae, etc. A must for every library and for every science oriented student.

A new dictionary of chemistry, 3rd edition.
By L. MacKenzie Miall.
New York, Interscience, 1961.
593 p., illus., $13.75.
A brief chemical encyclopedia, less advanced than some, and therefore more suitable for younger students. The biographical notes of key figures are well-done.

Handbook of chemistry, 10th edition.
By Norbert Lange and Gordon Forker, editors.
New York, McGraw-Hill, 1961.
1969 p., $11.00.
A reference volume for chemists and chemical engineers, students, and others, containing physical data used in laboratory work and manufacturing. Similar to Handbook of Chemistry and Physics, but the latter has more mathematical data and tabulations.

APPLIED SCIENCE

The science book of the human body.
By Edith E. Sproul.
New York, Watts, 1955.
232 p., illus., $4.95.
A clear, perceptive explanation of the elements of human anatomy and physiology by a doctor and teacher of pathology. Easily understood by the junior high student, it is nevertheless a thorough, dignified presentation of this universally interesting subject, and probably especially valuable to the teenager who is discovering biology and becoming interested in how his own body works.

A short history of medicine.
By Edwin Ackerknecht.
New York, Ronald Press, 1955.
258 p., illus., $5.50.
An account of the development of medicine from prehistoric times through ancient India, China, and Greece, and the past several centuries in Europe, to the beginnings of public health and the main trends of medical science in the twentieth century.

The climates of the continents, 5th edition.
By Wilfred G. Kendrew.
Oxford, Clarendon Press, 1961.
608 p., $12.50.
Very useful because worldwide in scope, giving altitude, temperature and precipitation (by month), for many cities of the world.

Weather and climate.

By Clarence E. Koeppe and G. C. DeLong.
New York, McGraw-Hill, 1958.
341 p., $7.50.

General information about weather and climate for student and layman, even including a delightful chapter on weather lore. A world-wide table of climatic data for selected stations, gives location, altitude, average temperature and precipitation (by month and year).

The Doubleday pictorial library of technology: Man remakes his world.

Edited by Jacob Bronowski, Gerald Barry, James Fisher and Julian Huxley.
New York, Doubleday, 1963.
367 p., illus., $12.95.

A pictorial and systematic presentation of the development of modern technology. All readers will be fascinated by the succinct discussion of the monumental developments in technology, techniques of measurement, energy at work, resources from the earth and sea, chemical technology, mineralogy, ceramics, food, textiles, building, transportation, communications and military technology. Glossary.

History of American technology.

By John Oliver.
New York, Ronald, 1956.
676 p., $8.50.

Beginning with the settlement of Jamestown and Plymouth, the development of American industry is described in terms of our technological skills, from agriculture to highway building. The book is arranged in approximate chronological order, but the author also maintains continuity of narrative. The result is a good survey.

Encyclopedia of electronics.

Edited by Charles Susskind.
New York, Reinhold, 1962.
974 p., illus., $22.50.

A comprehensive encyclopedia of electronics, arranged alphabetically. Each topic is well-explained, many being supplemented by charts and diagrams.

Aeronautics and astronautics: an American chronology of science and technology in the exploration of space.

By Eugene Emme.
United States National Aeronautics and Space Administration.
Washington, D. C. , Government Printing Office, 1961.
240 p., Price varies.

Covers 1915-1960. A listing, by year and day, of important events in aeronautics, with emphasis on United States efforts. Subject and name index. Lists of records, awards, etc. Supplements to this list have been issued yearly since 1961.

Guide to space age.

By C. W. Besserer and Hazel Besserer.
New York, Prentice-Hall, 1959.
320 p., illus., $7.95.

A useful reference work defining many terms and abbreviations used in space technology. Also includes electronic, military, industrial and meteorological terms sometimes used in the space program. Some articles contain charts, diagrams, and cross references.

The automation age.

By Pauline Arnold and Percival White.
New York, Holiday, 1963.
197 p., illus., $3.95.

An enlightening general survey of the mechanical inventions that made automation possible. Then follows a story of computers and how they work, from the early counting devices to the modern "electronic brains." Examples of automation are discussed -- in the home, on the farm, in defense and space projects, in offices and mercantile establishments, in manufacturing and processing plants, etc. The book concludes with a discussion of the influence of automation on society. Every school library should own a copy and every student needs to read it.

Computers: the machines we think with.

By Daniel S. Halacy, Jr.
Harper, 1962.
279 p., illus., $4.95.

This layman's introduction to computers begins with the abacus, Jacquard's punched cards for weaving, and other simple devices. The principles of computers are explained, the distinction between analog and digital types is made clear, and then the reader is introduced to binary arithmethic. The principles of the electronic computer, representative machines, their uses, and a forecast of the future make up the remainder of this readable book.

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Special Education for the Gifted Through Television, a project funded under P.L. 89-10, Elementary and Secondary Education Act of 1965.

Sponsored by the RAND Council of Northeast Minnesota.